S)F Pl. Prot. Div.

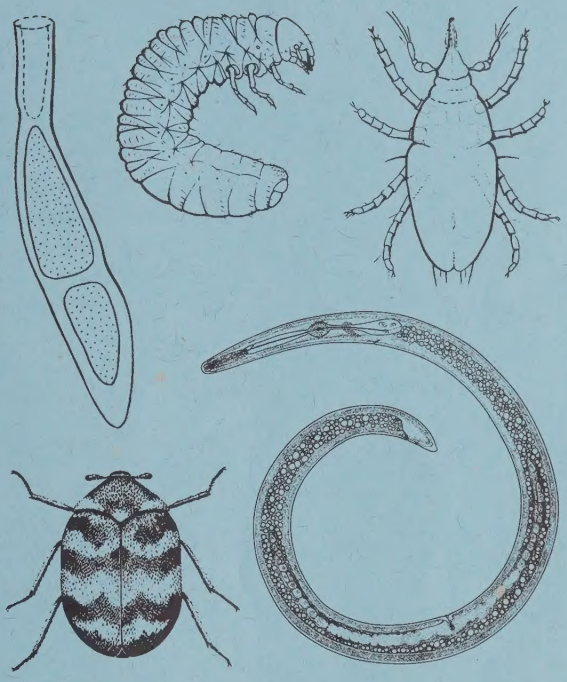
Agriculture Canada

Ottawa, Canada

INTERCEPTED PLANT PESTS

1974 - 1975

CANADIAN PLANT QUARANTINE



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COMMONWEALTH MYCOLOGICAL INSTITUTE
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AGRICULTURE CANADA

Production and Marketing Branch — Plant Protection Division

LIST OF INTERCEPTED PLANT PESTS

April 1st, 1974 - March 31st, 1975

INTRODUCTION

This report summarizes the import interception records of the Plant Protection Division for the period April 1st, 1974 to March 31st, 1975, and includes plant pests found on, or associated with, plants and plant products, baggage, cargo, mail or carriers entering Canada. Pest records concerning pre-shipment inspection of flowering bulbs in the Netherlands, the Canadian Nursery Survey, Canadian Export Certification, and various domestic surveys may be found in other reports covering these activities.

In this report pests are recorded under three categories: "Entomology", which includes insects, mites and mollusks; "Pathology", which includes bacteria, fungi and viruses and "Nematology". Imports are divided into "propagation" and "consumption", according to their obvious or intended use. The heading "Host (or carrier)" is used because many of the plants with which a specific pest is associated may not necessarily be host plants, and soil or other materials not associated with plants at the time of interception may also carry pests. The term "Soil" is used only when no recognizable plant or plant material could be associated with the soil in which a pest was found.

The mode of transport for each pest is indicated by code letters under the column "Carried in". Four categories are used: APB - Air passengers baggage; M - mail; C - cargo; and NE - Non-entry. "Non-entry" refers to the interception of a pest in the interior of a carrier or on a plant or product within the carrier not intended to be moved into Canada. Nevertheless, the risk of pest entry existed since the carrier was on Canadian soil or in Canadian waters at the time of inspection.

Both the "Host" and "Origin" lists refer only to the name of the pest organism. The most complete information is available in the "Pest" list. The lists include only those pests which are considered to be of plant quarantine interest and some which may be of interest because they are new to the country of origin, new to the host plant or are of limited distribution in Canada. Certain pests have been arbitrarily included where there is insufficient information in regard to their significance and/or distribution in Canada. A large number of the more common intercepted insects, mites, mollusca, fungi, bacteria and nematodes were not included in these lists, but information on these as well as more detailed information on those included here is on file and may be obtained by contacting the Director, Plant Protection Division, Ottawa.

The majority of pest identity determinations were made by personnel within the Biological Services Section of the Plant Protection Division. Where necessary, identifications were made, or were verified, by specialists in the Research Branch, Canada Agriculture. Mollusca were identified by personnel at the Canadian National Museum. At certain ports-of-entry, inspectors are qualified to make identifications of specific pests because of frequent interceptions of the pest from the same geographical area. However, periodically these port identifications are monitored by specialists. The scientific names in the lists are those provided by the specialist at the time the identifications were made. The identity of many pests were incompletely determined, but complete identifications of those which may be of quarantine significance are included in the list.

Notes on Pests Intercepted

During the fiscal year covered by this report a total of 1360 pest interceptions were submitted to headquarters for identification. This total is considerably higher than those of the previous year when 871 pest interceptions were submitted. The larger total this year is due entirely to the increased number of submitted insects.

The following table compares the total pest submissions for each of the three pest groups with the related totals which are of quarantine significance or of other interest.

The figures in brackets are those for the previous year, 1973-1974.

	No. of Interceptions	
	Total No.	Total of P.Q. Significance
Nematodes	266 (281)	178 (227)
Fungi and Viruses	128 (169)	32 (95)
Insects and Mollusks	970 (421)	201 (208)
Grand Total	1364 (871)	411 (530)

Some pests intercepted for the first time were: Acutaspis perseae, Scale, on Laurus sp from Greece; Agelastica alvi, a leaf beetle in packing with nursery stock from Holland; Anastrepha ludens, a fruit fly on Citrus (grapefruit) from Texas, U.S.A.; Aspidiella sacchari, Scale, on Frangipani from Hawaii, U.S.A.; Bostrichus capucinus, Bostrichid weevil, on wood (olive) (carving) from Israel; Ceroplastes irregularis, Wax Scale, on Podocarpus, from Florida, U.S.A.; Diaplochelus longipes, Scarab beetle, on Protea (cut flowers), from South Africa; Diocalandra taitensis, weevil, on Cocos nucifera from Hawaii, U.S.A.; Drymaeus dominicus, Mollusc on Ficus sp, from Dominican Republic; Ecpantheria deflorata, Moth, on Chrysanthemum, from Florida, U.S.A.; Fiorinia theae, Scale on Camellia, from Florida, U.S.A.; Forficula californica, Earwig on Vitis (fresh grape) from California, U.S.A.; Gamasellodes bicolor, Mites, on Conifer cones, from Scotland; Keiferia lycopersicella, Pinworm, on Lycopersicon (fruit), from Mexico; Milax gagates, Mollusc, on Mentha sp, from Portugal; Naupactus canthographus, weevil, on Vitis (fresh fruit), from Chile; Pectinophora gossypiella, Pink bollworm, on Gossypium, from an unknown country; Periploca nigra, a Lepidoptera, on Juniperus sp from Mississippi, U.S.A.; Phaneroptera gracilis, cricket, in aircraft (cabin area), from an unknown country; Rhopalophora incrustata, wood borer, in wood (crates) from Mexico; Simodactylus cinnamomeus, click beetle, on Anthurium (cut flowers), from Hawaii, U.S.A.; Solenopsis molesta, "Thief out", on Rosmarinus, from Italy; Typhlodromus rhenanoides, Mites on conifer cones, from Scotland;

Tyrophagus longior, Mites on conifer cones, from Scotland; Veronicella emeghini, Mollusc, on Monstera deliciosa, from Florida, U.S.A.; Coniothyrium concentricum (stage of Leptosphaeria obtusispora), on Yucca gloriosa, from California, U.S.A.; Cryptodiaporthe hystrix, as the conideal stage Discella acerina, on Acer schwedleri, from Holland; Cuscuta sp with Lavandula vera seed, from Holland; Discula stage of Apiognomonia errabunda, on Frainus pensylvania from Minnesota, U.S.A.; Green Ring Mottle virus on Prunus yedoensis var. yoshino, from England; Xanthamonas hederae, on Hedera sp from California, U.S.A.; Aphelenchoides cyrtus, on dahlias, from Washington, U.S.A.; Criconema fimbriatum, on polypodiaceae, from New Hampshire, U.S.A.; Pratylenchus flakkensis, in mosspacking, from Holland and Rotylenchus quarta, in soil from the U.S.S.R. Heterodera rostochiensis was intercepted six times (England, 2X, France, Greece, Poland and Yugoslavia).

Significant Interceptions and Means of Transport

	Cargo	Air Passengers' Baggage	Mail	Non-Entry	TOTAL
Nematodes	111	46	21	--	178
Fungi, etc.	31	1	--	--	32
Insects, etc.	79	36	9	77	201
TOTALS	221	83	30	77	411

Appreciation is extended to A.C. Schmidt (Entomologist) and A.E. Straby (Plant Pathologist) of the Biological Services section for their assistance in editing this report.

B. E. Hopper
Nematologist and Chief
Biological Services
Plant Protection Division
Ottawa.

July, 1976

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	Consumption	CARRIED IN	PROV. OF COLLECTION
Acedes fuscipunctella (Haw.) (Tineidae)						
	Grain residue in ship	Unknown		3	NE	B.C. (3x)
Acedes pallescentella (Staint.) "Large pale clothes moth" (Tineidae)						
	Grain residue in ship	Unknown		39	NE	B.C. (27x) Que. (12x)
Acutaspis perseae (Comstock) "Red bay scale" (Diaspididae)						
	Laurus sp.	Greece		1	A.P.B.	Que.
Aganactesis indecora Dyar (Galleriidae)						
	Cassia sp.	Barbados		1	A.P.B.	Ont.
Agelastica alni (Linn.) (Chrysomelidae)						
	Packing (with NSY stock)	Holland	1		C	Ont.
Altica sp. (Chrysomelidae)						
	Dicentra sp.	Holland	1		C	Que.
Anastrepha ludens (Loew) "Mexican Fruit Fly" (Tephritidae)						
	Citrus sp. (grapefruit)	Texas (USA)		1	C	Ont.
Ancylostomia stercorea Zeller (Phycitidae)						
	Cajanus cajan	Jamaica		1	C	Ont.
Aphomia gularis Zeller (Pyralididae)						
	Psidium sp.	Philippines		1	A.P.B.	B.C.
	Grain residue in ship	Unknown		1	NE	B.C.
Argyresthia sp. (Yponomeutidae)						
	Opuntia fulgida (logs)	Arizona (USA)		1	C	B.C.
* Arion ater (Linn.) (Arionidae)						
	Syringa sp.	Belgium	1		C	Ont.
Aspidiella sacchari (Cockerell) "Sugar cane scale" (Diaspididae)						
	Frangipani	Hawaii (USA)	1		A.P.B.	B.C.
Blatta orientalis Linn. "Oriental Cockroach" (Blattidae)						
	Container (space)	Singapore		1	NE	B.C.
	Ficus sp.	Florida (USA)	1		C	Que.
Bostrichus capucinus (Linn.) (Bostrichidae)						
	Wood (olive) (carving)	Israel		1	A.P.B.	Alta.
* Bradybaena similaris (Férussac) (Bradybaenidae)						
	Dieffenbackia sp.	Florida (USA)	1		C	Que.
	Dracaena marginata	Florida (USA)	1		C	Que.
	Ficus sp.	Florida (USA)	3		C	Que., Ont. (2x)
	Palm	Florida (USA)	2		C	Que. (2x)
	Plants (aquatic)	Singapore	1		C	Alta.

* Mollusca

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	CARRIED IN	PROV. OF COLLECTION
Bruchus rufimanus Boh. "Broadbean weevil" (Bruchidae)						
	Phaseolus sp.	Greece	1		A.P.B.	Alta.
Callosobruchus chinensis Linn. "Southern coupea weevil" (Bruchidae)						
	Gram (flour)	Kenya		1	M	Ont.
	Phaseolus	Hong Kong		1	M	Alta.
	Phaseolus	Taiwan	1		M	B.C.
	Phaseolus	Ghana		1	A.P.B.	B.C.
Callosobruchus maculatus (Fab.) "Cowpea weevil" (Bruchidae)						
	Coffee (beans)	Nicaragua		1	C	B.C.
	Phaseolus sp.	Italy	1		A.P.B.	B.C.
Ceroplastes irregularis Ckll. "Irregular wax scale" (Coccidae)						
	Podocarpus	Florida (USA)	1		C	Que.
Chrysomphalus ficus Ashmead "Florida red scale" (Diaspididae)						
	Dracaena	Florida (USA)	1		C	Alta.
	Palm	Florida (USA)	1		C	Alta.
Corcyra cephalonica Stainton "Rice moth" (Pyralididae)						
	Grain residue in ship (container).	Unknown		1	C	B.C.
	Grain residue in ship	Unknown		3	NE	B.C. 2x, N.B.
	Plants (dried)	Singapore		1	C	B.C.
Ctenicera sjaelandica (Müll.)(Elateridae)						
	Packing (with plants)	Holland		1	C	Alta.
Curculic? nasicus Say "Acorn weevil" (Curculionidae)						
	Quercus sp. (acorns)	Mass. (USA)	1		M	Alta.
Cyclocephala sp. (Scarabaeidae)						
	Cajanus cajan	Unknown		1	A.P.B.	Ont.
Dacus dorsalis Hendel "Oriental fruit fly" (Tephritidae)						
	Mangifera indica	Philippines		1	A.P.B.	B.C.
Dacus oleae (Gmelin) "Olive fruit fly" (Tephritidae)						
	Olea europaea (fruit)	Italy		1	C	Ont.
Diaplochelus longipes (Fab.) (Scarabaeidae)						
	Protea (cut flowers)	South Africa		2	A.P.B.	Alta., B.C.
Diaspis boisduvalii Signoret "Boisduval scale" (Diaspididae)						
	Cattleya sp.	Taiwan	1		A.P.B.	B.C.
Dinoderus brevis Horn (Bostrichidae)						
	Wood (bamboo mug)	Jamaica		1	A.P.B.	N.B.
	Wood (bamboo stakes)	Japan		1	C	Que.
	Plants (dried)	China		1	A.P.B.	Que.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	Consumption	CARRIED IN	PROV. OF COLLECTION
Dinoderus japonicus Lesne (Bostrichidae)	Container (grain residue)	Japan		1	C	B.C.
Dinoderus minutus (Fab.) (Bostrichidae)	Palmaceae (dried leaf curtains)	Philippines		1	C	Alta.
	Wood (bamboo)	Japan		1	C	Ont.
Diocalandra taitensis (Guér.) (Curculionidae)	Cocos nucifera	Hawaii (USA)		2	A.P.B.	Alta. (2x)
* Drymaeus dominicus Reeve (Bulimulidae)	Ficus sp.	Dom. Rpblc.	1		C	Ont.
Ecpantheria deflorata Fab. "Great leopard moth" (Arctiidae)	Chrysanthemum	Florida (USA)	1		C	Ont.
Ectomyelois? sp. (Phycitidae)	Pleomele	Florida (USA)	1		C	Que.
Endrosis sarcitrella (Linn.) white shouldered house moth" (Oecophoridae)	Grain residue in ship	Unknown		2	NE	B.C., Que.
	Wheat	Yugoslavia	1		A.P.B.	Que.
Erinnyis ello Linn. (Sphingidae)	Euphorbia sp.	Florida (USA)	1		C	N.S.
Fiorinia theae Green "Tea Scale" (Diaspididae)	Camellia	Florida (USA)	1		C	Ont.
Forficula californica Dohrn. "The linear earwig" (Forficulidae)	Vitis (fresh grape)	California(USA)		1	C	Ont.
** Gamasellodes bicolor (Berlese) (Ascidae)	Conifer cones	Scotland	1		M	Nfld.
Gnathocerus cornutus (Fab.) "Broad-horned flour beetle" (Tenebrionidae)	Grain residue in ship	Unknown		1	NE	B.C.
Heliothis sp.? virescens (Fab.) (Noctuidae)	Hibiscus esculentus (Okra)	Fiji		1	A.P.B.	B.C.
* Helix aperta Born (Helicidae)	Wood (crating)	Italy		1	C	Ont.
* Helix aspersa (Muller) "Brown garden snail" (Helicidae)	Crassula (cuttings)	California(USA)	1		A.P.B.	B.C.
	Plants (herbaceous)	California(USA)	1		C	Alta.
Heterobostrychus aequalis (Waterhouse) (Bostrichidae)	Wood (slats)	Thailand		1	C	N.B.
	Wood (utensils)	Thailand		1	C	B.C.

* Mollusca
** Acarina

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	Consumption	CARRIED IN	PROV. OF COLLECTION
Hymenia recurvalis (Fab.) "Hawaiian beet webworm" (Pyraustidae)						
	Polygonaceae	Fiji		1	C	B.C.
Keiferia lycopersicella (Wals.) "Tomato pinworm" (Gelechiidae)						
	Lycopersicon (fruit)	Mexico		1	C	Ont.
Lasius alienus (Foerster) "Cornfield ant" (Formicidae)						
	Baggage (clothing)	Australia		1	A.P.B.	B.C.
Lepidosaphes beckii (Newman) "Purple scale" (Diaspididae)						
	Citrus (orange fruit)	South Africa		1	C	Ont.
* Limax maximus Linn. "Spotted garden slug" (Limacidae)						
	Packing (with plants)	Belgium	1		C	Que.
	Plants (ferns & cacti)	Peru	1		A.P.B.	B.C.
Melanoplus femurrubrum (DeGeer) "Red legged grasshopper" (Acrididae)						
	Container (cargo)	Orient		1	NE	B.C.
Microcentrum retinerve (Burmeister) "Angular-winged katydid" (Tettigoniidae)						
	Laurus	Florida (USA)	1		C	Que.
* Milax gagates (Draparnaud) "Greenhouse slug" (Limacidae)						
	Mentha sp.	Portugal	1		A.P.B.	Ont.
* Milax sp. (Limacidae)						
	Camellia sp.	Unknown	1		A.P.B.	B.C.
Myrmica ruginodis Nylander (Formicidae)						
	Rosa sp.	Holland	2		C	Que.
Naupactus xanthographus? (Germar) (Curculionidae)						
	Vitis (fresh fruit)	Chile		1	C	B.C.
Noctuidae (unidentified cutworms) (Lepidoptera)						
	Chrysanthemum	Florida (USA)	1		C	Alta.
	Dracaena	Florida (USA)	1		C	Ont.
	Fraxinus	Minnesota "	1		C	Alta.
	Hibiscus	Florida (USA)	1		C	Que.
	Palms	Florida (USA)	1		C	Que.
	Plants (woody)	Holland	1		C	N.S.
Oeme rigida (Say) (Cerambycidae)						
	Cypress (wood stakes)	Florida (USA)		1	C	N.S.
	Cypress (wood stakes)	Florida (USA)		1	C	Que.
Pectinophora gossypiella (Saunders) "Pink bollworm" (Gelechriidae)						
	Gossypium	Unknown		1	A.P.B.	B.C.

* Mollusca

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	CARRIED IN	PROV. OF COLLECTION
Periploca nigra Hodges (Walshiidae)						
	Juniperus sp.	Miss. (USA)	1		C	Ont.
Phaneroptera gracilis Burmeister (Tettigoniidae)						
	Aircraft (cabin area)	Unknown			NE	B.C.
Phenacaspis pinifoliae (Fitch) "Pine needle scale" (Diaspididae)						
	Pinus sp.	Israel	1		A.P.B.	Que.
Pinnaspis strachani (Cooley) "Lesser snow scale" (Diaspididae)						
	Palm	Florida (USA)	1		C	Ont.
Plannococcus citri (Risso) "Citrus mealybug" (Pseudococcidae)						
	Cones (sprouted out)	Oregon (USA)			C	B.C.
	Plant (tropical flowered)	Barbados		1	A.P.B.	Ont.
Rhopalophora? incrustata Chevrolat (Cerambycidae)						
	Wood (crates)	Mexico		1	C	P.E.I.
Rhyzopertha dominica (Fab.) "Lesser grain borer" (Bostrichidae)						
	Coriander (seed)	India		1	C	B.C.
	Grain residue in ship	Unknown		21	N	B.C. (10x), Que. (8x) N.B. (2x), Ont. (1x)
Saissetia oleae (Bernard) "Black scale" (Coccidae)						
	Howea sp.	Florida (USA)	1		C	Ont.
Simodactylus cinnamomeus (Boisd.) (Elateridae)						
	Anthurium (cut flowers)	Hawaii (USA)		1	N	Alta.
Sinoxylon anale Lesne (Bostrichidae)						
	Wood (crates)	Hawaii (USA)		1	C	B.C.
	Wood (slats)	Hong Kong		1	C	B.C.
	Wood (crates)	India		2	C	B.C., Que.
	Wood (crates)	Pakistan		1	C	Que.
Sinoxylon conigerum Gerst. (Bostrichidae)						
	Wood (crates)	India		1	C	B.C.
	Wood (handles)	India		1	C	Ont.
	Wood (utensils)	Pakistan		1	C	Que.
Sitotroga cerealella (Oliv.) "Angoumois grain moth" (Gelechiidae)						
	Grain residue in ship	Unknown		4	NE	Que. (3x), Van (1x)
Solenopsis molesta (Say) "thief ant" (Formicidae)						
	Rosmarinus	Italy	1		A.P.B.	Que.

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	Consumption	CARRIED IN	PROV. OF COLLECTION
Spodoptera frugiperda (J.E. Smith) "Fall armyworm" (Noctuidae)						
	Ficus sp.	Florida (USA)	1		C	B.C.
Stephanoderes hampei (Ferr.) (Scolytidae)						
	Coffee (beans)	Africa		1	C	Que.
	Coffee (beans)	Cameroon		1	C	Que.
Sterrha inquinata (Scop.) "Herbarium spanworm" (Geometridae)						
	Calluna (heather)	England	1		A.P.B.	Alta.
	Camomilla	Yugoslavia		1	A.P.B.	B.C.
Tetramorium caespitum (Linn.) "Pavement ant" (Formicidae)						
	Palmaceae	Philippines		1	C	Alta.
Thyridopteryx ephemeraeformis (Haw.) "bagworm" (Psychidae)						
	Palms	Florida (USA)	1		C	Que.
Tipula sp. (Tipulidae)						
	Rosa sp.	Germany	1		M	Ont.
Tortricidae (Lepidoptera)						
	Rosa sp.	Cal. (USA)	1		C	Ont.
Trogoderma granarium Everts "Khapra beetle" (Dermestidae)						
	Jute (cargo)	India		1	C	N.S.
	Plants (dried flowers)	Spain		1	C	Que.
Trogoxylon prostomoides (Gorham) (Lyctidae)						
	Wood (bamboo)	Mexico		1	C	Ont.
	Wood (bongo drum)	Haiti		1	A.P.B.	Ont.
** Typhlodromus? rhenanoides (Athias-Henriot) (Phytoseiidae)						
	Conifer cones	Scotland	1		M	Nfld.
** Tyrophagus longior (Gervais) (Acaridae)						
	Conifer cones	Scotland	1		M	Nfld.
Unaspis citri (Comstock) "Citrus snow scale" (Diaspididae)						
	Citrus (fruit, orange)	China		1	C	B.C.
	Citrus (fruit, orange)	Florida (USA)		1	A.P.B.	Alta.
* Veronicella ameghini (Gambetta) (Veronicellidae)						
	Monstera deliciosa	Florida (USA)	1		A.P.B.	Que.

* Mollusca
** Acarina

PEST (insect, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	CARRIED IN	PROV. OF COLLECTION
* *Veronicella* sp. (Veronicellidae)						
	Scindapsus aureus	Florida (USA)	1		C	Ont.
Wasmannia auropunctata (Roger) "Little fire ant" (Formicidae)						
	Cocos	Bahamas		1	A.P.B.	Ont.
	Plants (dried flowers)	Jamaica		1	A.P.B.	Ont.
	Plants (herbaceous)	Hawaii (USA)	1		A.P.B.	B.C.
	Plants (tropical flowers)	Barbados		1	A.P.B.	Ont.
	Solanum sp.	Fiji		1	C	B.C.

* Mollusca

J. Scott

PEST (nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	CARRIED IN	PROV. OF COLLECTION
Anguina agrostis (Steinbuch 1799) Filip. 1936 "grass seed nematode" (Tylenchidae):						
	Agrostis spp. (bent grass seed)...	Oregon (U.S.A.)	2		C	Que. (2x)
	Agrostis spp. (bent grass seed)...	New Zealand	1		C	Que.
Aphelenchoides cyrtus Paesler, 1957 (Aphelenchoididae):						
	Dahlia	Wash., (USA)	1		C	B.C.
Aphelenchoides sp. (Aphelencoididae): "foliar nematodes"						
	Allium (onion sets)	Netherlands	1		C	Que.
	Allium (shallots)	Netherlands	1		C	Ont.
	Cedrus	Lebanon	1		M	Ont.
	Dahlia	Wash., (USA)	1		C	B.C.
	Fragaria	France	1		M	Alta.
	Moss packing	Netherlands		1	C	B.C.
	Plants (herb.)	Peru	1		A.P.B.	B.C.
	Plants (herb.)	Portugal	1		A.P.B.	Ont.
	Ribes	Minn., (USA)	1		C	Ont.
	Sambucus	Netherlands	1		S&L	Alta
Criconema fimbriatum Cobb in Taylor, 1936 (Criconematidae):						
	Polypodiaceae sp.	New Hamp., (USA)	1		C	Ont.
Criconema octangulare (Cobb, 1914) Taylor 1936 (Criconematidae):						
	Polypodiaceae sp.	New Hamp., (USA)	1		C	Ont.
Criconemoides sp. (Criconematidae):						
	Allium	India	1		M	Alta.
	Cedrus	Lebanon	1		M	Ont.
	Plants (herb.)	Portugal	1		A.P.B.	Ont.
	Plants (herb.)	Peru	1		A.P.B.	B.C.
	Plants (woody)	Greece	1		M	Ont.
Ditylenchus dipsaci (Kühn 1857) Filip. 1936 "bulb and stem nematode" (Tylenchidae)						
	Allium (shallots)	Netherlands	1		C	N.S.
	Allium	Netherlands	2		C	Ont.
Helicotylenchus digonicus Perry, 1959 "a spiral nematode" (Tylenchidae):						
	Soil	U.S.S.R.	1		M	Ont.
Helicotylenchus pseudorobustus (Steiner 1914) Golden 1956 "a spiral nematode" (Tylenchidae):						
	Moss Packing	Netherlands	2		C	B.C.
	Soil	U.S.S.R.	1		M	Ont.

PEST (nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	CARRIED IN	PROV. OF COLLECTION
Heterodera ? cyperi Golden, Rau and G.S. Cobb, 1962 (Heteroderidae):						
	Agricultural machinery (tractor with soil)	Japan		2	C	B.C. (2x)
Heterodera ? estonica Kirjanova & Krall, 1963 (Heteroderidae):						
	Lonicera	Spain	1		A.P.B.	Que.
Heterodera fici Kirjanova 1954 "The fig-cyst nematode" (Heteroderidae):						
	Ficus	Italy	1		A.P.B.	Que.
	Plants (herbaceous)	Portugal	1		A.P.B.	B.C.
Heterodera goettingiana Liebscher 1892 "pea-root nematode" (Heteroderidae):						
	Agricultural machinery (tractors with soil)	Japan		2	C	B.C.
	Camellia	Unknown	1		A.P.B.	B.C.
Heterodera ? goettingiana Liebscher 1892 "pea-root nematode" (Heteroderidae):						
	Lilium	Portugal	1		A.P.B.	Que.
Heterodera humuli Filip. 1934 "hop-cyst nematode" (Heteroderidae):						
	Astilbe	Netherlands	1		C	Ont.
	Convallaria	France	1		M	Que.
	Ficus	Italy	2		A.P.B.	Que. (2x)
	Lilium	Denmark	1		A.P.B.	Alta.
		Yugoslavia	1		A.P.B.	Alta.
Heterodera ? mothi Khan & Husain, 1965 (Heteroderidae):						
	Agricultural machinery (tractor with soil)	Japan		1	C	B.C.
Heterodera punctata Thorne 1928 "grass-cyst nematode" (Heteroderidae):						
	Automobile	France		1	C	Que.
	(with soil)	Italy		1		
	Construction machinery (with soil)	England		2		
	Construction machinery (loader with soil)	Japan		1	C	B.C.
	Dicentra	Netherlands	1		C	Que.
	Paeonia	Netherlands	1		C	Que.
	Soil	Europe		1	C	Ont.

PEST (nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	Consumption	CARRIED IN	PROV. OF COLLECTION
Heterodera rostochiensis Woll. 1923 "potato-cyst nematode" (Heteroderidae):						
	Dianthus	Greece	1		A.P.B.	Que.
	Laurus	England	1		A.P.B.	B.C.
	Mentha	England	1		A.P.B.	Alta.
		Poland	1		A.P.B.	Que.
	Plants (herbaceous)	Yugoslavia	1		A.P.B.	Alta.
	Soil	France	1		A.P.B.	Que.
Heterodera ? *rostochiensis* Woll. 1923 "potato-cyst nematode (Heteroderidae):						
	Construction Machinery (with soil)	Japan	1		C	B.C.
Heterodera schachtii Schmidt 1871 "sugar beet-cyst nematode" (Heteroderidae):						
	Automobile (with soil)	Germany		1	C	Que.
		France		1	C	Que.
	Construction Machinery (with soil)	England		1	C	Que.
	Lycopersicon	Italy	1		A.P.B.	Que.
	Mentha	Poland	1		A.P.B.	Que.
	Soil	Portugal		1	A.P.B.	Que.
	Thymus	Portugal	1		A.P.B.	Que.
	Unknown	Germany	1		A.P.B.	Alta.
Heterodera ? *tabacum* Lowns. & Lowns. 1954 "tabacco-cyst nematode" (Heteroderidae):						
	Plants (woody)	Conn., (USA)	1		C	Que.
Heterodera trifolii Goffart 1932 "clover-cyst nematode" (Heteroderidae):						
	Agricultural Machinery (with soil)	Japan		1	C	B.C.
	Automobile (with soil)	France		1	C	Que.
		Germany		5	C	Que. (4x)
	Calluna	England	1		M	Alta.
	Camellia	Unknown	1		A.P.B.	B.C.
	Construction Machinery	England		1	C	Que.
	(with soil)	Japan		1	C	B.C.
	Convallaria	France	1		M	Que.
	Cotoneaster	Netherlands	1		C	Que.
	Lilium	Denmark	1		A.P.B.	Alta.
	Pinus	N.Y., (USA)	1		C	Ont.
	Plants (woody)	Miss, (USA)	1		C	B.C. (2x)
		Oregon, (USA)	1		A.P.B.	Que.
	Soil	Japan		1	A.P.B.	B.C.
	Sorbus	Netherlands	1		C	Que.
	Taxus	Conneticut (USA)	1		C	Que.

PEST (nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	CARRIED IN	PROV. OF COLLECTION
Helicotylenchus sp "a spiral nematode" (Tylenchidae):						
	Cedrus	Lebanon	1		M	Ont.
	Soil	U.S.S.R.		1	M	Ont.
Heterodera avenae Woll. 1924 (Filip. 1934) "The oat-cyst nematode" (Heteroderidae):						
	Clematis	England	1		M	Ont.
	Construction machinery (with soil)	England		1	C	Que.
	Hyacinthus	France	1		A.P.B.	Alta.
	Nephrolepis (fern)	Italy	1		A.P.B.	Que.
	Rosmarinus	Portugal	1		A.P.B.	Que.
	Soil (with bulbs)	Austria	1		A.P.B.	Alta.
Heterodera ? avenae Woll. 1924 (Filip. 1934) "The oat-cyst nematode" (Heteroderidae):						
	Agricultural machinery (tractor with soil)	Japan	1		C	B.C.
Heterodera cacti Filip. & Stek. 1941 "cactus-cyst nematode" (Heteroderidae):						
	Construction machinery (with soil)	England		1	C	Que.
	Graminaea	U.S.A.	1		A.P.B.	Alta.
	Juniperus	Cal., (U.S.A.)	1		C	B.C.
	Plants (herbaceous)	Greece	2		A.P.B.	Que. (2x)
		France	1		M	Que.
	Rosmarinus	Portugal	1		A.P.B.	Que.
Heterodera ? cacti Filip. & Stek 1941 "Cactus-cyst nematode" (Heteroderidae):						
	Vitis	Portugal	1		A.P.B.	Que.
Heterodera cruciferae Franklin 1945 "Cabbage-cyst nematode" (Heteroderidae):						
	Automobile (with soil)	France		1	C	Que.
	Citrus	Portugal	1		A.P.B.	Que.
	Laurus sp.	England	1		A.P.B.	B.C.
Heterodera ? cruciferae Franklin 1945 "Cabbage-cyst nematode" (Heteroderidae):						
	Agricultural machinery (tractor with soil)	Japan		2	C	B.C. (2x)
	Soil	Sweden		1	A.P.B.	Alta.

PEST (nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	CARRIED IN	PROV. OF COLLECTION
Heterodera ? *trifolii* Goffart 1932 "clover cyst nematode" (Heteroderidae):						
	Agricultural Machinery (tractors with soil)	Japan		2	C	B.C.
	Armed Forces Machinery (with soil)	Belgium		1	C	B.C.
	Automobile (with soil)	Germany		1	C	B.C.
	Construction Machinery (with soil)	Japan		2	C	B.C.
Heterodera weissi Steiner 1949 "knotweed-cyst nematode" (Heteroderidae):						
	Buddleia	Iowa, (USA)	1		C	B.C.
Heterodera ? *weissi* Steiner 1949 "knotweed-cyst nematode" (Heteroderidae):						
	Construction Machinery (with soil)	Japan		1	C	B.C.
	Plants (woody)	Ill., (USA)	1		C	B.C.
Heterodera sp. (Heteroderidae):						
	Agricultural Machinery (with soil)	Japan		2	C	B.C. (2x)
	Automobile (with soil)	Belgium		1	C	Que.
		England		1	C	B.C.
		Europe		1	C	Que.
	Camellia	Portugal	1		A.P.B.	Que.
	Clothing (boots with soil)	Switzerland		1	M	B.C.
	Plants (herbaceous)	Portugal	1		A.P.B.	Ont.
	Plants (woody)	Cal., (USA)	1		C	B.C.
Meloidogyne hapla Chitwood 1949a "northern root-knot nematode" (Heteroderidae):						
	Rosa	Netherlands	8		C	Que. (5x) Ont. (3x)
Meloidogyne incognita (Kofoid and White 1919)Chitwood 1949 "southern root-knot nematode" (Heteroderidae):						
	Cyclamen	Unknown	1		A.P.B.	Alta.
	Ligustrum	Tenn., (USA)	2		C	Ont.
	Lycopersion	Ga., (USA)	1		C	B.C.
		Tenn., (USA)	1		C	Ont. (2x)
	Philadelphus	Tenn., (USA)	1		C	B.C.
	Schefflera	Fla., (USA)	1		C	Alta.

PEST (nematode)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	Consumption	CARRIED	PROV. OF
Meloidogyne sp. "root-knot nematode" (Heteroderidae):						
	Forsythia	Iowa, (USA)	1		C	Ont.
	Fragaria	Cal., (USA)	1		M	B.C.
	Lonicera	Tenn., (USA)	1		C	Ont.
	Lycopersicon	Ga., (USA)	4		C	Ont. (4x)
	Rosa	Netherlands	5		C	Que.
						Ont. (4x)
		Texas, (USA)	2		C	Ont. (2x)
		Cal., (USA)	1		C	Ont.
	Symphoricarpos	Tenn., (USA)	1		C	Ont.
Paratylenchus sp. "pin nematode" (Criconematidae):						
	Dracaena	Fla., (USA)	1		C	Que.
	Plants (herbaceous)	Portugal	1		A.P.B.	Ont.
Pratylenchus flakkensis Seinhorst 1968 "root-lesion nematode" (Tylenchidae):						
	Moss packing	Netherlands	2		C	B.C.
Pratylenchus sp. "root-lesion namatode" (Tylenchidae):						
	Fragaria	France	1		M	Alta.
	Plants (herbaceous)	Portugal	1		A.P.B.	Ont.
Rotylenchus quarta (Andrássy 1958) Sher 1961 "a spiral nematode" (Tylenchidae):						
	Soil	USSR		1	M	Ont.
Trichodorus sp. "stubby-root nematode" (Diphtherophoridae):						
	Plants (herbaceous)	Portugal	1		A.P.B.	Ont.
Tylenchorhynchus dubius (Bütschli 1873) Filipjev 1936 (Tylenchidae):						
	Soil	USSR		1	M	Ont.
Xiphinema americanum Cobb 1913 "American dagger nematode" (Longidoridae):						
	Allium	Netherlands	1		C	N.S.
	Juniperus	Oregon, (USA)	1		C	B.C.
	Lonicera	Iowa, (USA)	1		C	B.C.

PEST (Fungus, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	CARRIED IN	PROV. OF COLLECTION
Ascochyta chrysanthemi Stev. (Perf = *Didymella ligulicola*) leaf and bud decay	*Chrysanthemum* (cuttings)	Fla. (USA)	1		C	Ont.
		Holland	1		A.P.B.	Alta.
Chlorotic Leaf spot (virus)	*Malus* var's Bessemianka Mieuzina	USSR	1			B.C.
	E. McIntosh	Wash. (USA)	1			B.C.
	Fugi Red Sport					
	Nagana I	Japan	1			B.C.
	Kinsei	Japan	1			B.C.
Coniothyrium concentricum (Desm) Sacc. (Perf = *Leptosphaeria obtusispora* speg.)	*Yucca gloriosa*	Calif. (USA)	1		C	Alta.
Cryptodiaporthe hystrix (Tode) Petr. (as conidial = *Discella acerina* (Westend) V. Arx.)	*Acer schwedleri*	Holland	1		C	Ont.
Cuscuta sp. (dodder)	*Lavendula* (seeds)	Holland	1		C	Ont.
Discula stage of *Apiognomonia errabunda* (Rob) V. Hohn.	*Fraxinus*	Minn. (USA)	1		C	Alta.
Erwina chrysanthemi Burk.et al	*Philodendron selloum*	Fla. (USA)	1		C	Alta.
Fleck (virus)	*Vitis* var's Chasselois Espignette	France	1			B.C.
	Semillon	France	1			B.C.
	Riesling Sylvaner	France	1			B.C.
	Pinot Noir	Italy	1			B.C.
	Muller Thurgau	Italy	1			B.C.
	Merlot	Italy	1			B.C.
	Muscat Marseille	France	1			B.C.
	S.V. 5276	New York	1			B.C.
	Perlette	France	1			B.C.
	Chateau Gai	France	1			B.C.
	Gamay Rouge de la Loire	Switzerland	1			B.C.
	Hexelrebe	Germany	1			B.C.
	Scheurebe	Germany	1			B.C.
	Syram	France	1			B.C.
	Chardonnay espignette	France	1			B.C.
Fusarium moniliforme Sheldon leafspot	*Dracaena*	Florida	1		C	Que.

PEST (Fungus, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	CARRIED IN	PROV. OF COLLECTION
Glomerella cingulata (Ston.) Spauld & Shrank. (usually as *Colletotrichum gloeosporioides* Penz. stage "Anthracnose"						
	Dracaena	Fla. (USA)	1		C	Que.
	Nephrolepis	Fla. (USA)	1		C	Ont.
		Ill. (USA)	1		C	N.S.
	Orchidaceae	Ill. (USA)	1		C	B.C.
	Palmaceae	Fla. (USA)	4		C	Que. (2x) Ont. (2x)
	Philodendron	Fla. (USA)	2		C	Que. Ont.
	Schefflera	Fla. (USA)	1		C	Que.
Green Ring Mottle (virus)						
	Prunus yedoensis var. yoshino	England	1			B.C.
Gymnosporangium juniperi-virginianae Schw. cedar - apple rust						
	Juniperus	Minn. (USA)	3		C	Alta.
Leaf Roll (virus)						
	Vitis var's Alden	New York (USA)	1			B.C.
	Vine red	New York (USA)	1			B.C.
	G.R. 8	New York (USA)	1			B.C.
	Castle 19637	New York (USA)	2			B.C.
	J.S. 26-205 Chambourcin	France	1			B.C.
	Muller Thurgau	France	1			B.C.
	Chardonnay Barbou	France	1			B.C.
	Carrigane White	Wash. (USA)	1			B.C.
	Patamano	Wash. (USA)	1			B.C.
	Chalas Rouge	Switzerland	1			B.C.
	Gamay Beaujolais on S04	France	1			B.C.
	Welsch Riesling	Austria	1			B.C.
	Welshriesling X Orangetraube	Austria	1			B.C.
	Saumer	France	1			B.C.
	Barlinka	S. Africa	1			B.C.
	Pinot Chardonnay	Cal. (USA)	1			B.C.
Little Cherry (Virus)						
	Prunus serrulata var. kwanzan	Holland	1			B.C.
Physalospora miyabeana Fukushi black canker			1			B.C.
	Salix sp.	Minn. (USA)	1		C	B.C.

PEST (Fungus, etc.)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN propagation	NO. OF INTERCEPTIONS IN Consumption	CARRIED IN	PROV. OF COLLECTION
Prune Dwarf and/or Necrotic Ring Spot (virus)						
	Prunus armeniaca var. Marculesti...	Romania	1			B.C.
	Prunus avium var. H. Bistrita	Romania	1			B.C.
Pseudomonas savastanoi (Smith) Stevens olive knot						
	Nerium sp.	Calif. (USA)	1		C	Alta.
Puccinia graminis Pers. stem rust						
	Lagurus ovatus (dried)	Italy		1	C	Que.
	Phleum (dried)	Italy		1	C	Que.
	Triticum (dried)	Italy		2	C	Que.
		Holland		2	C	Que.
Quince Sooty Ring Spot (virus)						
	Pyrus var's Bon Rouge	S. Africa	1			B.C.
	B 14	S. Africa	1			B.C.
	B 11	S. Africa	1			B.C.
	BPI	S. Africa	1			B.C.
Quince Stunt (virus)						
	Pyrus var. Bon Rouge	S. Africa	1			B.C.
Rubbery Wood (virus)						
	Malus var's Profusion	Holland	1			B.C.
	Van eseltine	Holland	1			B.C.
	Hopa	Holland	1			B.C.
	Lodi	New York	1			B.C.
	Melrose	New York	1			B.C.
	Puritan	New York	1			B.C.
	Idared	New York	1			B.C.
	F 12 A 15	Europe	1			B.C.
	Fugi Red Sport Type I.	Japan	1			B.C.
	Fugi Red Sport Type II	Japan	1			B.C.
	Fugi Red Sport Nagana I	Japan	1			B.C.
	Kinsei	Japan	1			B.C.
	A 1399	England	1			B.C.
	Kansuensis	England	1			B.C.
Sharka (virus)						
	Prunus armeniaca var. Ahrori	Yugoslavia	1			B.C.
	var. Sel 657 cacak	Yugoslavia	1			B.C.
	var. kechemetska	Yugoslavia	1			B.C.

PEST (Fungus, etc)	HOST (or carrier)	COUNTRY OF ORIGIN	NO. OF INTERCEPTIONS IN Propagation	NO. OF INTERCEPTIONS IN Consumption	CARRIED IN	PROV. OF COLLECTION
Spy Decline (virus)						
	Malus var's Bessemianka Mieuzina	USSR	1			B.C.
	E. McIntosh	Wash. (USA)	1			B.C.
	Fugi Red Sport Type I	Japan	1			B.C.
	Fugi Red Sport Type II	Japan	1			B.C.
	Fugi Red Sport Nagana I	Japan	1			B.C.
	Kinsei	Japan	1			B.C.
Stem Grooving (virus)						
	Malus var's Fugi Red Sport Type I	Japan	1			B.C.
	Fugi Red Sport Type II	Japan	1			B.C.
	Fugi Red Sport Nagana I	Japan	1			B.C.
	Kinsei	Japan	1			B.C.
Stem Pitting (virus)						
	Malus var's Fugi Red Sport Type I	Japan	1			B.C.
	Fugi Red Sport Type II	Japan	1			B.C.
	Fugi Red Sport Nagana I	Japan	1			B.C.
	Kinsei	Japan	1			B.C.
Vein Yellows (virus)						
	Pyrus var's Highland	New York	1			B.C.
	Old Home	Oregon	1			B.C.
	Bon Rouge	S. Africa	1			B.C.
	B 14	S. Africa	1			B.C.
	B 11	S. Africa	1			B.C.
	BPII.....	S. Africa	1			B.C.
Virus Group Complex (Fanleaf, Yellow Mosaic Vein Banding)						
	Vitis var's 3309	France	2			B.C.
	Chateau Gai	France	2			B.C.
	Muska	S. Africa	1			B.C.
	Seibel 54. SSN	France	1			B.C.
	Pinot Noir	France	1			B.C.
	3308	France	1			B.C.
	Faberrebe	Germany	1			B.C.
	Auxerrois	France	1			B.C.
	Pinot Noir Barbou	France	1			B.C.
	Foch	France	1			B.C.
	Pinot Chardonnay	France	1			B.C.
	Scheurebe	W. Germany	1			B.C.
	Chardonnay Daviau	France	1			B.C.
	Pinot Noir on SO4	France	1			B.C.
	18-315	France	1			B.C.
	Italia	Italy	1			B.C.
	Pinot Bianco	Italy	1			B.C.
	Schiava Grossa	Italy	1			B.C.
	Saumer	France	1			B.C.
	GL 31-15-100 Fortalo .	Germany	1			B.C.
	Riesling	Germany	1			B.C.
	Leon Millot	New York	1			B.C.
Xanthomonas hederae (Arnaud) Dowson Bacterial Leaf spot						
	Hedera spp.	Calif. (USA)	2		C	Alta.

HOSTS (OR CARRIERS) OF INTERCEPTED PESTS

J. Scott, D. Laidlaw and A.E. Tymchak

ACER:
- Cryptodiaporthe hystrix — fungus

AGRICULTURAL MACHINERY (Tractors):
- Heterodera ? avenae — (Nematode)
- Heterodera ? cruciferae (2x) — "
- Heterodera ? cyperi (2x) — "
- Heterodera goettingiana (2x) — "
- Heterodera ? mothi — "
- Heterodera trifolii — "
- Heterodera ? trifolii (2x) — "
- Heterodera sp. (2x) — "

AGROSTIS:
- Anguina agrostis (3x) — (Nematode)

AIRCRAFT:
- Phaneroptera gracilis — (Insect)

ALLIUM:
- Aphelenchoides sp. (2x) — (Nematode)
- Criconemoides sp. — "
- Ditylenchus dipsaci (3x) — "
- Xiphinema americanum — "

ANTHURIUM:
- Simodactylus cinnamomeus — (Insect)

ARMED FORCES MACHINERY:
- Heterodera ? trifolii — (Nematode)

ASTILBE:
- Heterodera humuli — (Nematode)

AUTOMOBILE:
- Heterodera cruciferae — (Nematode)
- Heterodera punctata (2x) — "
- Heterodera schachtii (2x) — "
- Heterodera trifolii (6x) — "
- Heterodera ? trifolii — "
- Heterodera sp. (3x) — "

BAGGAGE:
- Lasius alienus — (Insect)

BUDDLEIA:
- Heterodera weissi — (Nematode)

CAJANUS CAJAN:
- Ancylostomia stercorea — (Insect)
- Cyclocephala

CALLUNA:
- Heterodera trifolii — (Nematode)
- Sterrha inquinata — (Insect)

CAMELLIA:
- Heterodera goettingiana — (Nematode)
- Heterodera trifolii — "
- Heterodera sp. — "
- Fiorinia theae — (Insect)
- Milax sp. — (Mollusca)

CAMOMILLA:
- Sterrha inquinata — (Insect)

CASSIA:
- Aganactesis indecora

CATTLEYA:
- Diespis boisduvalii

CEDRUS:
- Aphelenchoides sp. — (Nematode)
- Criconemoides sp. — "
- Helicotylenchus sp. — "

CHRYSANTHEMUM:
- Ascochyta chrysanthemi (2x) — fungus
- Ecpantheria deflorata — (Insect)
- Noctuidae — "

CITRUS:
- Anastrepha ludens — (Insect)
- Heterodera cruciferae — (Nematode)
- Lepidosaphes beckii — (Insect)
- Unaspis citri (2x) — "

CLEMATIS:
- Heterodera avenae — (Nematode)

CLOTHING:
- Heterodera sp. — (Nematode)

COCOS NUCIFERA:
- Deocalandra taitensis (2x) — (Insect)
- Plannococcus citri — "
- Wasmannia auropunctata — "

HOSTS (OR CARRIERS) OF INTERCEPTED PESTS

COFFEE (Beans):	
Callosobruchus maculatus	(Insect)
Stephanoderes hampei	"
CONIFER (Cones):	
Gamasellodes bicolor	(Insect)
Typhlodromus sp.? rhenanoides	"
Tyrophagus longeor	"
CONSTRUCTION MACHINERY:	
Heterodera avenae	(Nematode)
Heterodera cacti	"
Heterodera punctata (3x)	"
Heterodera schachii	"
Heterodera trifolii (2x)	"
Heterodera ? trifolii (2x)	"
Heterodera ? weissi	"
CONTAINER (space):	
Blatta orientalis	(Insect)
Dinoderus japonicus	"
Melanoplus femur-rubrum	"
CORIANDER (Seed):	
Rhyzopertha dominica	(Insect)
CONVALLARIA:	
Heterodera humuli	(Nematode)
Heterodera trifolii	"
COTONEASTER	
Heterodera trifolii	(Nematode)
CRASSULA:	
Helix aspersa	(Mollusca)
CYCLAMEN:	
Meloidogyne incognita	(Nematode)
CYPRESS (wood stakes):	
Oeme rigida	(nsect)
DAHLIA	
Aphelenchoides cyrtus	(Nematode)
Aphelenchoides sp.	"
DIANTHUS	
Heterodera rostochiensis	(Nematode)
DICENTRA:	
Altica sp.	(Insect)
Heterodera punctata	(Nematode)
DIEFFENBACKIA:	
Bredybaena similaris	(Mollusca)
DRACAENA:	
Bradybeana similaris	(Mollusca)
Chrysomphalus ficus	(Insect)
Fusarium moniliforme	fungus
Glomerella cingulata	fungus
Noctuidae	(Insect)
Paratylenchus sp.	(Nematode)
EUPHORBIA:	
Erinnyis ello	(Insect)
FICUS:	
Blatta orientalis	(Nematode)
Bradybaena similaris (3x)	(Mollusca)
Drymaeus dominicus	"
Heterodera fici	(Nematode)
Heterodera humuli (2x)	"
Spodoptera frugiperda	(Insect)
FORSYTHIA:	
Meloidogyne sp.	(Nematode)
FRAGARIA:	
Aphelenchoides sp.	(Nematode)
Meloidogyne sp.	"
Pratylenchus sp.	"
FRANGIPANI:	
Aspidiella sacchari	(Insect)
FRAXINUS	
Discula stage of Apiognomonia errabunda	fungus
Noctuidae	(Insect)
GOSSYPIUM:	
Pectinophora gossypiella	(Insect)
GRAHAM (Flour):	
Callosobruchus chinensis	(Insect)
GRAIN RESIDUE IN SHIP:	
Acedes fusipunctella (3x)	(Insect)
Acedes pallescentella (39x)	"
Aphonica gularis	"
Corcyra cephalonica (4x)	"
Endrosis sarcitrella (2x)	"
Gnathocerus cornutus	"
Rhyzopertha dominica (21x)	"
Sitotroga cerealella (4x)	"

HOSTS (OR CARRIERS) OF INTERCEPTED PESTS

GRAMINAEA:
- Heterodera cacti (Nematode)

HEDERA
- Xanthomonas hederae (2x) (Bacteria)

HIBISCUS ESCULENTUS:
- Heliothis sp. ? virescens (Insect)
- Noctuidae "

HOWEA:
- Saissetia oleae "

HYACINTHUS:
- Heterodera avenae (Nematode)

JUNIPERUS:
- Gymnosporangium juniperi-virginianae (3x) rust
- Heterodera cacti (Nematode)
- Periploca nigra (Insect)
- Xiphinema americanum (Nematode)

JUTE (cargo):
- Trogoderma granarium (Insect)

LAGURUS
- Puccinia graminis rust
- Acutaspis perseae (Insect)

LAURUS:
- Heterodera cruciferae (Nematode)
- Heterodera rostochiensis (Nematode)
- Microcentrum retinerue (Insect)

LAVANDULA:
- Cuscuta sp. (Parasitic Plant)

LIGUSTRUM:
- Meloidogyne incognita (2x) (Nematode)

LILIUM:
- Heterodera ? goettingiana (Nematode)
- Heterodera humuli (2x) "
- Heterodera trifolii "

LONICERA:
- Heterodera ? estonica (Nematode)
- Meloidogyne sp. "
- Xiphinema americanum "

LYCOPERSICON:
- Heterodera schachtii (Nematode)
- Keiferia lycopersicella (Insect)
- Meloidogyne incognita (2x) (Nematode)
- Meloidogyne sp. (4x) "

MALUS:
- Chlorotic leaf spot (4x) virus
- Rubbery wood (13x) "
- Spy decline (6x) "
- Stem grooving (4x) "
- Stem pitting (4x) "

MANGIFERA INDICA:
- Dacus dorsalis (Insect)

MENTHA:
- Heterodera rostochiensis (2x) (Nematode)
- Heterodera schachtii "
- Milax gagates (Mollusca)

MONSTERA DELICIOSA:
- Veronicella ameghini (Mollusca)

MOSS PACKING:
- Aphelenchoides sp. (Nematode)
- Helicotylenchus pseudorobustus (2x) "
- Pratylenchus flakkensis (2x) "

NEPHROLEPIS:
- Glomerella cingulata (2x) fungus
- Heterodera avenae (Nematode)

NERIUM:
- Pseudomonas savastonoi bacteria

OLEA EUROPAEA:
- Dacus oleae (Insect)

OPUNTIA FULGIDA:
- Argyresthia sp. (Insect)

OCHIDACEAE:
- Glomerella cingulata fungus

PACKING (with plants):
- Agelastica alni (Insect)
- Ctenicera sjaelandica "
- Limax maximus (Mollusca)

HOSTS (OR CARRIERS) OF INTERCEPTED PESTS

PAEONIA:
- Heterodera punctata (Nematode)

PALMACEAE:
- Bradybaena similaris (2x) (Mollusca)
- Chrysomphalus ficus (Insect)
- Dinoderus minutus "
- Glomerella cingulata (4x) fungus
- Noctuidae (Insect)
- Pinnaspis strachani "
- Tetramorium caespitum "
- Thyridpteryx ephemeralformis "

PHASEOLUS:
- Bruchus rufimanus (Insect)
- Callosobruchus chinensis (3x) "

PHILADELPHUS:
- Meloidogyne incognita (Nematode)

PHILODENDRON:
- Erwinia chrysanthemi bacteria
- Glomerella cingulata (2x) fungus

PHLEUM:
- Puccinia graminis rust

PINUS:
- Heterodera trifolii (Nematode)
- Phenacaspis pinifoliae (Insect)

PLANTS (Aquatic):
- Bradybaena similaris (Mollusca)

PLANTS (Dried):
- Corcyra cephalonica (Insect)
- Dinoderus brevis "
- Trogoderma granarium "
- Wasmannia auropunctata "

PLANTS (herbaceous):
- Aphelenchoides sp. (2x) (Nematode)
- Criconemoides sp. (2x) "
- Helix aspersa (Mollusca)
- Heterodera cacti (3x) (Nematode)
- Heterodera fici "
- Heterodera rostochiensis "
- Heterodera sp. "
- Paratylenchus sp. "
- Pratylenchus sp. "
- Trichodorus sp. "
- Wasmannia auropunctata (Insect)

PLANTS (woody):
- Criconemoides sp. (Nematode)
- Heterodera trifolii (3x) "
- Heterodera ? tabacum "
- Heterodera ? weissi "
- Heterodera sp. "
- Noctuidae (insect)

PLANTS (Tropical flowered):
- Limex maximus (Mollusca)
- Plannococcus citri (Insect)
- Wasmannia auropunctata "

PLEOMELE:
- Ectomyelois sp. (Insect)

PODOCARPUS:
- Ceroplastes irregularis (Insect)

POLYGONACEAE:
- Hymenia recusualis "

POLYPODIACEAE SP.:
- Criconema fimbriatum (Nematode)

PROTEA:
- Diaplochelus longipes (2x) (Insect)

PRUNUS (Cherries)
- Green ring mottle virus
- Little cherry "
- Necrotic ring spot "

PRUNUS ARMENIACA:
- Necrotic ring spot and/or Prune dwarf virus
- Sharka (3x) "

PSIDIUM
- Aphomia gularis (Insect)

PYRUS
- Quince sooty ring spot (4x) virus
- Quince stunt "
- Vein yellows (6x) "

QUERCUS:
- Curculio ? nasicus (Insect)

RIBES:
- Aphelenchoides sp. (Nematode)

ROSA:
- Meloidogyne hapla (8x) (Nematode)
- Meloidogyne sp. (8x) "
- Myrmica ruginodis (Insect)
- Tipula sp. "
- Tortricidae "

ROSMARINUS:
- Heterodera avenae (Namatode)
- Heterodera cacti "
- Solenopsis molesta (Insect)

SALIX:
- Physalospora miyabeana fungus

HOST (OR CARRIERS) OF INTERCEPTED PESTS

SAMBACUS:
- Aphelenchoides sp. (Nematode)

SCHEFFLERA:
- Glomerella cingulata fungus
- Meloidogyne incognita (Nematode)

SCINDAPSUS AUREUS:
- Veronicella sp. (Mollusca)

SEDUM:
- Heterodera trifolii (Nematode)

SOIL:
- Helicotylenchus digonicus (Nematode)
- Helicotylenchus pseudorobustus "
- Helicotylenchus sp. "
- Heterodera avenae "
- Heterodera ? cruciferae "
- Heterodera punctata "
- Heterodera rostochiensis "
- Heterodera schachtii "
- Heterodera trifolii "
- Rotylenchus quarta "
- Tylenchorhynchus dubius "

SOLANUM:
- Wasmannia auropunctata (Insect)

SORBUS:
- Heterodera trifolii (Nematode)

SYMPHORICARPOS:
- Medoidogyne sp. (Nematode)

SYRINGA:
- Arion ater (Mollusca)

TAXUS:
- Heterodera trifolii (Nematode)

THYMUS:
- Heterodera schachtii (Nematode)

TRITICUM:
- Puccinia graminis (4x) rust
- Endrosis sarcitrella (Insect)

VITIS
- Fleck (15x) virus
- Heterodera ? cacti (Nematode)
- Florficula californica (Insect)
- Leaf roll (17x) virus
- Naupactus xanthographus (Insect)
- Virus complex group (Fanleaf, yellow mosaic, vein banding) (24x) virus

UNKNOWN:
- Heterodera schachtii (Nematode)

WOOD (BAMBOO):
- Dinoderus brevis (2x) (Insect)
- Dinoderus minutus "
- Trogoxylon prostomoides "

WOOD (CRATING):
- Helix aperta (Mollusca)
- Heterobostrychus aequalis (Insect)
- Rhopalophora ? incrustata "
- Sinoxylon anale (5x) "
- Sinoxylon conigerum "

WOOD (OLIVE CARVING):
- Bostrichus capucinus (Insect)

WOOD (UTENSILS):
- Heterobostrychus aequalis (Insect)
- Sinoxylon conigerum (2x)
- Trogoxylon prostoneoides "

YUCCA:
- Coniothyrium concentricum fungus

COUNTRIES OF ORIGIN OF PESTS INTERCEPTED

D. Laidlaw, A.E. Tymchak and J. Scott

AFRICA:
- *Diaplochelus longipes* (2x) (Insect)
- *Lepidosaphes beckii* "
- *Stephanoderes hampei* "

AUSTRALIA:
- *Lasius alienus* (Insect)

AUSTRIA:
- *Heterodera avenae* (Nematode)
- Leaf Roll (2x) (Virus)

BAHAMAS:
- *Wasmannia auropunctata* (Insect)

BARBADOS:
- *Aganactesis indecora* (Insect)
- *Plannococcus citri* "
- *Wasmannia auropunctata* "

BELGIUM:
- *Arion ater* (Mollusca)
- *Heterodera ? trifolii* (Nematode)
- *Heterodera* sp. "
- *Lima maximus* (Mollusca)

CAMEROONS:
- *Stephanoderes hampei* (Insect)

CHILE:
- *Naupactus xanthographus* (Insect)

CHINA:
- *Dinoderus brevis* (Insect)
- *Unaspis citri* "

DENMARK:
- *Heterodera humuli* (Nematode)
- *Heterodera trifolii* "

DOMINICAN REPUBLIC:
- *Drymaeus dominicus* (Mollusca)

ENGLAND:
- Green Ring Mottle (Virus)
- *Heterodera avenae* (2x) (Nematode)
- *Heterodera cacti* "
- *Heterodera cruciferae* "
- *Heterodera punctata* (2x) "
- *Heterodera rostochiensis* (2x) "
- *Heterodera schachtii* "
- *Heterodera trifolii* (2x) "
- *Heterodera* sp. "
- Rubbery wood (2x) (Virus)
- *Sterrha inquinata* (Insect)

EUROPE:
- *Heterodera punctata* (Nematode)
- *Heterodera* sp. "
- Rubbery wood (Virus)

FIJI:
- *Heliothis ? virescens* (Insect)
- *Hymenia recurvalis* "
- *Wasmannia auropunctata* "

FRANCE:
- *Aphelenchoides* sp. (Nematode)
- Fleck (8x) (Virus)
- *Heterodera avenae* (Nematode)
- *Heterodera cacti* "
- *Heterodera cruciferae* "
- *Heterodera humuli* "
- *Heterodera punctata* "
- *Heterodera rostochiensis* "
- *Heterodera schachtii* "
- *Heterodera trifolii* (2x) "
- Leaf Roll (5x) (Virus)
- *Pratylenchus* sp. (Nematode)
- Virus group complex (Fanleaf yellow mosaic, vein banding) (15x) (Virus)

GERMANY:
- Fleck (2x) (Virus)
- *Heterodera schachtii* (2x) (Nematode)
- *Heterodera trifolii* (5x) "
- *Heterodera ? trifolii* "
- *Tipula* sp. (Insect)
- Virus group complex (fanleaf, yellow mosaic, vein banding) (4x) (Virus)

GHANA:
- *Callosobruchus chinensis* (Insect)

GREECE:
- *Acutaspis perseae* "
- *Bruchus rufimanus* "
- *Criconemoides* sp. (Nematode)
- *Heterodera cacti* (2x) "
- *Heterodera rostochiensis* "

HAITI
- *Trogoxylon prostomoides* (Insect)

HONGKONG:
- *Callosobruchus chinensis* (Insect)
- *Sinoxylon anale* "

Countries of Origin of Pests Intercepted

INDIA:

Criconemoides sp.	(Nematode)
Rhyzopertha dominica	(Insect)
Sinoxylon anale (2x)	"
Sinoxylon conigerum (2x)	"
Trogoderma granarium	"

ISRAEL:

Bostrichus capucinus	"
Phenacaspis pinifoliae	"

ITALY:

Callosobruchus maculatus	(Insect)
Dacus oleae	"
Fleck (3x)	(Virus)
Helix aperta	(Mollusca)
Heterodera avenae	(Nematode)
Heterodera fici	"
Heterodera humuli (2x)	"
Heterodera punctata	"
Heterodera schachtii	"
Heterodera trifolii	"
Puccinia graminis (4x)	(Rust)
Solenopsis molesta	(Insect)
Virus group complex (fanleaf yellow mosaic, vein banding) (3x)	(Virus)

JAMAICA:

Ancylostomia stercorea	(Insect)
Dinoderus brevis	"
Wasmannia auropunctata	"

JAPAN:

Chlorotic Leaf Spot (2x)	(Virus)
Dinoderus brevis	(Insect)
Dinoderus japonicus	"
Dinoderus minutus	"
Heterodera ? avenae	(Nematode)
Heterodera ? cruciferae (2x)	"
Heterodera ? cyperi (2x)	"
Heterodera ? mothi	"
Heterodera punctata	"
Heterodera ? rostochiensis	"
Heterodera trifolii (3x)	"
Heterodera ? trifolii (4x)	"
Heterodera ? weissi	"
Heterodera sp. (2x)	"
Spy decline (4x)	(Virus)
Stem grooving (4x)	"
Stem pitting (4x)	"

KENYA:

Callosobruchus chinensis	(Insect)

LEBANON:

Aphelenchoides sp.	(Nematode)
Criconemoides sp.	"
Helicotylenchus sp.	"

MEXICO:

Keiferia lycopersicella	(Insect)
Rhopalophora ? incrustata	"
Trogoxylon prostomoides	"
Agelastica alni	"
Altica sp.	

NETHERLANDS

Aphelenchoides sp. (4x)	(Nematode)
Ascochyta chrysanthemi	(Fungus)
Cryptodiaporthe hystrix	"
Ctenicera sjaelandica	(Insect)
Cuscuta sp.	(Parasitic Weed)
Ditylenchus dipsaci (3x)	(Nematode)
Helicotylenchus pseudorobustus (2x)	"
Heterodera humuli	"
Heterodera punctata (2x)	"
Heterodera trifolii (2x)	"
Little cherry	(Virus)
Meloidogyne hapla (8x)	(Nematode)
Medoidogyne sp. (5x)	"
Myrmica ruginodis (2x)	(Insect)
Noctuidae	"
Pratylenchus flakkensis (2x)	(Nematode)
Puccinia graminis (2x)	(Rust)
Rubbery wood (3x)	(Virus)
Xiphinema americanum	(Nematode)

NEW ZEALAND

Anguina agrostis	(Nematode)

NICARAGUA:

Callosobruchus maculatus	(Insect)

ORIENT:

Melanoplus femur-rubrum	(Insect)

PAKISTAN:

Sinoxylon anale	(Insect)
Sinoxylon conigerum	"

PERU:

Aphelenchoides sp.	(Nematode)
Criconemoides sp.	"
Limax maximus	(Mollusca)

PHILIPPINES:

Aphomia gularis	(Insect)
Dacus dorsalis	"
Dinoderus minutus	"
Tetramorium caespitum	"

Countries of Origin of Pests Intercepted

POLAND:
- Heterodera rostochiensis (Nematode)
- Heterodera schachtii "

PORTUGAL:
- Aphelenchoides sp. (Nematode)
- Criconemoides sp. "
- Heterodera avenae "
- Heterodera cacti "
- Heterodera ? cacti "
- Heterodera cruciferae "
- Heterodera fici "
- Heterodera ? goettingiana "
- Heterodera schachtii (2x) "
- Heterodera sp. (2x) "
- Milax gagates (Mollusca)
- Paratylenchus sp. (Nematode)
- Pratylenchus sp. "
- Trichodorus sp. "

ROMANIA:
- Necrotic Ring Spot and/or Prune dwarf (2x) (Virus)

SCOTLAND:
- Gamasellodes bicolor (Insect)
- Typhlodromus ? rhenanoides "
- Tyrophagus longior "

SINGAPORE:
- Blatta orientalis (Insect)
- Bradybaena similaris (Mollusca)
- Corcyra cephalonica (Insect)

SOUTH AFRICA
- Leaf Roll (Virus)
- Quince Sooty Ring Spot (4x) "
- Vein Yellow "
- Virus Group Complex (fanleaf, yellow mosaic, vein banding) "

SPAIN:
- Heterodera ? estonica (Nematode)
- Trogoderma granarium (Insect)

SWEDEN:
- Heterodera ? cruciferae (Nematode)

SWITZERLAND
- Fleck (Virus)
- Heterodera sp. (Nematode)
- Leaf Roll (Virus)

TAIWAN:
- Callosobruchus chinensis (Insect)
- Diaspis boisduvalii "

THAILAND:
- Heterobostrychus aequalis (2x) "

UNKNOWN:
- Acedes fuscipunctella (3x) (Insect)
- Acedes pallescentella (39x) "
- Aphomia gularis "
- Corcyra cephalonica (4x) "
- Cyclocephala sp. "
- Endrosis sarcitrella (2x) "
- Gnathocerus cornutus "
- Heterodera goettingiana (Nematode)
- Heterodera trifolii "
- Meloidogyne incognita "
- Milax sp. (Mollusca)
- Pectinophora gossypiella (Insect)
- Phaneroptera gracilis "
- Rhyzopertha dominica (21x) "
- Sitotroga cerealella "

U.S.S.R.:
- Chlorotic leaf spot (Virus)
- Helicotylenchus digonicus (Nematode)
- Helicotylenchus pseudorobustus "
- Helicotylenchus sp. "
- Rotylenchus quarta "
- Spy decline (Virus)
- Tylenchorhynchus dubius (Nematode)

YUGOSLAVIA:
- Endrosis sarcitrella (Insect)
- Heterodera humuli (Nematode)
- Heterodera rostochiensis (Nematode)
- Sharka (3x) (Virus)
- Sterrha inquinata (Insect)

UNITED STATES: BY STATE:

ARIZONA:
- Argyresthia sp. (Insect)

CALIFORNIA:
- Coniothyrium concentricum (Fungus)
- Forficula californica (Insect)
- Helix aspersa (2x) (Mollusca)
- Heterodera cacti (Nematode)
- Heterodera sp. "
- Leaf Roll (Virus)
- Meloidogyne sp. (2x) (Nematode)
- Pseudomonas sauastanoi (Bacteria)
- Tortricidae (Insect)
- Xanthomonas hederae (2x) (Bacteria)

Countries of Origin of Pests Intercepted

CONNECTICUT:

Heterodera trifolii	(Nematode)
Heterodera ? tabacum	"

FLORIDA:

Ascochyta chrysanthemi	(Fungus)
Blatta orientalis	(Insect)
Bradybaena similaris (7x)	(Mollusca)
Ceroplastes irregularis	(Insect)
Chrysomphalus ficus	"
Ecpantheria deflorata	"
Ectomyelois ? sp.	"
Erinnyis ello	"
Erwinia chrysanthemi	(Bacteria)
Fiorinia theae	(Insect)
Fusarium moniliforme	(Fungus)
Glomerella cingulata (9x)	"
Meloidogyne incognita	(Nematode)
Microcentrum retinerve	(Insect)
Noctuidae (4x)	"
Oeme rigida	"
Paratylenchus sp.	(Nematode)
Pinnaspis strachani	(Insect)
Saissetia oleae	"
Spodoptera frugiperda	"
Thyridopteryx ephemeraeformis	"
Unaspis citri	"
Veronicella ameghini	(Mollusca)
Veronicella sp.	"

GEORGIA:

Meloidogyne incognita	(Nematode)
Meloidogyne sp. (4x)	"

HAWAII:

Aspidiella sacchari	(Insect)
Diacalandra taitensis (2x)	"
Simodactylus cinnamomeus	"
Sinoxylon anale	"
Wasmannia auropunctata	"

ILLINOIS

Glomerella cingulata (2x)	(Fungus)
Heterodera ? weissi	(Nematode)

IOWA:

Heterodera weissi	(Nematode)
Meloidogyne sp.	"
Xiphinema americanum	"

MASSACHUSETTS:

Curculio ? nasicus	(Insect)

MINNESOTA:

Aphelenchoides sp.	(Nematode)
Discula stage of Apiognomonia errabunda	(Fungus)
Gymnosporangium juniperi-virginianae	(Rust)
Noctuidae	(Insect)
Physalospora miyabeana	(Fungus)

MISSISSIPPI:

Heterodera trifolii	(Nematode)
Periploca nigra	(Insect)

NEW HAMPSHIRE:

Criconema fimbriatum	(Nematode)
Criconema octangulare	"

NEW YORK:

Fleck	(Virus)
Heterodera trifolii	(Nematode)
Leaf Roll (5x)	(Virus)
Rubbery wood (4x)	"
Vein Yellow	"
Virus group complex (fanleaf, yellow mosaic vein banding)	"

OREGON:

Anguina agrostis (2x)	(Nematode)
Heterodera trifolii	"
Plannococcus citri	(Insect)
Vein Yellow	(Virus)
Xiphinema americanum	(Nematode)

TENNESSEE:

Meloidogyne incognita (4x)	(Nematode)
Meloidogyne sp. (2x)	"

TEXAS:

Anastrepha ludens	(Insect)
Meloidogyne sp. (2x)	(Nematode)

WASHINGTON:

Aphelenchoides cyrtus	(Nematode)
Aphelenchoides sp.	"
Chlorotic leaf spot	(Virus)
Leaf Roll (2x)	"
Spy decline	"

STATE - U.S.A. ?:

Heterodera cacti	(Nematode)